

#### From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:
DAVIES COLLISON CAVE
1 Little Collins Street
Melbourne, VIC 3000
AUSTRALIE

TUESDAY, - 2 JAN 2001.

Date of mailing (day/month/year)

21 December 2000 (21,12,00)

Applicant's or agent's file reference

2304114/DBW
International application No.

PCT/AU00/00651

International filing date (day/month/year)

09 June 2000 (09.06.00)

Priority date (day/month/year)

IMPORTANT NOTICE

11 June 1999 (11.06.99)

**Applicant** 

TELSTRA R & D MANAGEMENT PTY. LTD. et al

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AG.AU.DZ.KP.KR.MZ.US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CN,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 21 December 2000 (21.12.00) under No. WO 00/78022

#### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

#### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

# PATENT COOPERATION TREATY PCT



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2304114	FOR FURTHER ACTION		ransmittal of International Preliminary (Form PCT/IPEA/416).
International Application No. PCT/AU00/00651	International Filing Date 9 June 2000	te (day/month/year)	Priority Date (day/month/year) 11 June 1999
International Patent Classification (IPC)	or national classification	and IPC	
Int. Cl. <sup>7</sup> H04M 3/493, G06F 17/28			
Applicant	•	, , , , , , , , , , , , , , , , , , , ,	
TELSTRA R & D MANAGEN	MENT PTY. LTD. et	al	
This international preliminary of and is transmitted to the application.	examination report has b	een prepared by this In	nternational Preliminary Examining Authority
2. This REPORT consists of a tot	al of 4 sheets, includi	ng this cover sheet.	
This report is also accom	panied by ANNEXES, i.	e., sheets of the descri	ption, claims and/or drawings which have
been amended and are the Rule 70.16 and Section 6	basis for this report and 07 of the Administrative	d/or sheets containing r	ectifications made before this Authority (see
These annexes consist of a tota		uno	
3. This report contains indications relating	g to the following items:	:	
I X Basis of the report	-		
II Priority			•
	of opinion with regard	to novelty, inventive st	ep and industrial applicability
IV Lack of unity of in		,	, , , , , , , , , , , , , , , , , , ,
V X Reasoned statemen		th regard to novelty, in statement	nventive step or industrial applicability;
VI X Certain documents			
VII Certain defects in	the international applicat	tion	
VIII Certain observatio	ns on the international ap	pplication	
Date of submission of the demand	Da	ate of completion of the	e report
5 January 2001		June 2001	
Name and mailing address of the IPEA/AU	Au	thorized Officer	
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTR	1		
E-mail address: pct@ipaustralia.gov.au		H. STOPFORD	
Facsimile No. (02) 6285 3929		lephone No. (02) 628	3 2177

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(	
	International application No.
	PCT/AU00/00651

I.	Basis of the report
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the claims, pages, as originally filed,
	pages, as amended (together with any statement) under Article 19,
	pages, filed with the demand,
	pages, received on with the letter of
	the drawings, pages, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the sequence listing part of the description:
	pages , as originally filed
	pages, filed with the demand  pages, received on with the letter of
_	• • •
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this
**	report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report



International application No.

PCT/AU00/00651

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

	and explanations supporting s	h statement	
1.	Statement		
	Novelty (N)	Claims 1-32	YES
		Claims	NO
	Inventive step (IS)	Claims 1-32	YES
		Claims	NO
	Industrial applicability (IA)	Claims 1-32	YES
		Claims	NO

2. Citations and explanations (Rule 70.7)

International Conference on Advance Issues of E-Commerce and Web-Based Information Systems, WECWIS, 1999. "Speechnet: A Network of Hyperlinked Speech-Accessible Objects". 8 April 1999. Pages 116-121. INSPEC Accession Number 6347132. Whole Document

The citation does not disclose the method of developing an interactive system. Consequently the claims are seen as being novel, involving an inventive step and being industrially applicable.

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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PCT	/A	UΟ	O/O	U6	51

VI.	Certain documents cite	ed		
	Certain published docun	nents (Rule 70.10)		
<del></del>	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid clain (day/month/year)
	EP 992980	12 April 2000	28 September 1999	6 October 1998
	WO 00/05708	3 February 2000	23 July 1999	24 July 1998
	,			
	•			
	Non-written disclosures	(Rule 70.9)		
	Non-written disclosures (ind of non-written disclosure	(Rule 70.9)  Date of non-wri  (day/mon		written disclosure
K		Date of non-wri		written disclosure referring to not written disclosure (day/month/year)
K		Date of non-wri		written disclosure
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K		Date of non-wri		written disclosure

## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2304114	FOR FURTHER ACTION	see Notification of Tra (Form PCT/ISA/220)	ansmittal of International Search Report as well as, where applicable, item 5 below.	
International application No.	International filing date	: (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/AU00/00651	9 June 2000		11 June 1999	
Applicant TELSTRA R & D MANAG	EMENT PTY. LTD	et al		
This international search report has been preparticle 18. A copy is being transmitted to the	pared by this International E International Bureau.	ll Searching Authority a	nd is transmitted to the applicant according to	
This international search report consists of a				
It is also accompanied by a c	copy of each prior art doc	ument cited in this repo	rt.	
1. Basis of the report				
which it was filed, unless otherwi	se indicated under this it	em.	of the international application in the language in	
Authority (Rule 23.1(b)).			international application furnished to this	
<ul> <li>b. With regard to any nucleotide an carried out on the basis of the seq</li> </ul>		ce disclosed in the inter	national application, the international search was	
contained in the internation	onal application in written	n form.		
filed together with the into	ernational application in	computer readable form	ı.	
furnished subsequently to	this Authority in written	form.		
furnished subsequently to	this Authority in comput	er readable form.		
the statement that the sub application as filed has be	sequently furnished written furnished.	en sequence listing doe	s not go beyond the disclosure in the international	
		puter readable form is i	dentical to the written sequence listing has been	
2. Certain claims were found	d unsearchable (See Bo	x I).		
3. Unity of invention is lacki	ing (See Box II).	•		
4. With regard to the title,	the text is approved as	submitted by the applic	cant.	
•	the text has been estab	lished by this Authority	to read as follows:	
5. With regard to the abstract, X	the text is approved as s	submitted by the applica	nt ,	
	the text has been establ The applicant may, with submit comments to thi	nin one month from the	e 38.2(b), by this Authority as it appears in Box III. date of mailing of this international search report,	
6. The figure of the drawings to be publ	ished with the abstract is	s Figure No. 3		
X	as suggested by the app	olicant.	None of the figures	
	because the applicant fa	ailed to suggest a figure		
	because this figure bett	er characterizes the inv	ention	

#### PCT/AU00/00651

#### CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7: H04M 3/493, G06F 17/28 According to International Patent Classification (IPC) or to both national classification and IPC В. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC: H04M 3/493, G06F 17/28 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, INSPEC, USPTO DOCUMENTS CONSIDERED TO BE RELEVANT C. Relevant to claim No. Category\* Citation of document, with indication, where appropriate, of the relevant passages WO 00/05708 A1 (Motorola Inc) 3 February 2000 1-32 P, X Whole Document EP 992980 A2 (Lucent Technologies Inc) 12 April 2000 P, X 1-32 Whole Document International Conference on Advance Issues of E-Commerce and Web-Based Information Systems, WECWIS, 1999. "Speechnet: A Network of 1-32 X Hyperlinked Speech-Accessible Objects". 8 April 1999. Pages 116-121. INSPEC Accession Number 6347132. Whole Document X See patent family annex Further documents are listed in the continuation of Box C Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to "A" document defining the general state of the art which is understand the principle or theory underlying the invention not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot "E" earlier application or patent but published on or after be considered novel or cannot be considered to involve an the international filing date inventive step when the document is taken alone document which may throw doubts on priority claim(s) "L" document of particular relevance; the claimed invention cannot or which is cited to establish the publication date of be considered to involve an inventive step when the document is another citation or other special reason (as specified) combined with one or more other such documents, such "O" document referring to an oral disclosure, use, combination being obvious to a person skilled in the art exhibition or other means document member of the same patent family document published prior to the international filing date but later than the priority date claimed Date of mailing of the ptenadiol see See Beport Date of the actual completion of the international search 11 August 2000 Authorized officer Name and mailing address of the ISA/AU **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA R.H. STOPFORD E-mail address: pct@ipaustralia.gov.au Telephone No: (02) 6283 2177 Facsimile No. (02) 6285 3929

## INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. **PCT/AU00/00651** 

T Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Do	cument Cited in Search Report		Patent Family Member					
wo	00/05708	AU	50067/99	AU	51269/99	AU	51270/99	
		AU	52278/99	wo	00/05643	wo	00/05861	
		wo	00/05638					
EP	992980	JP	12/137596					

**END OF ANNEX** 

#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

#### (19) World Intellectual Property Organization International Bureau



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#### (43) International Publication Date 21 December 2000 (21.12.2000)

#### **PCT**

#### (10) International Publication Number WO 00/78022 A1

(51) International Patent Classification7: H04M 3/493. G06F 17/28

Craig [AU/AU]; 52 Boisdale Street, Surrey Hills, VIC 3127 (AU).

- (21) International Application Number: PCT/AU00/00651
- (22) International Filing Date: 9 June 2000 (09.06.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: PQ 0917

PQ 4668

11 June 1999 (11.06.1999) AU 15 December 1999 (15.12.1999)

- (71) Applicant (for all designated States except US): TEL-STRA R & D MANAGEMENT PTY. LTD. [AU/AU]; 2/242 Exhibition Street, Melbourne, VIC 3000 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): STARKIE, Bradford,

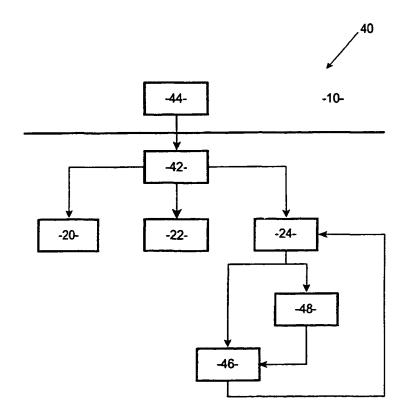
(74) Agent: DAVIES COLLISON CAVE; 1 Little Collins

Street, Melbourne, VIC 3000 (AU).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

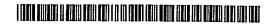
(54) Title: A METHOD OF DEVELOPING AN INTERACTIVE SYSTEM



(57) Abstract: A method of developing an interactive system, including inputting application data representative of an application for the system, the application data including operations and parameters for the application, generating prompts on the basis of the application data, and generating grammar on the basis of the application data. The prompts and grammar are generated on the basis of a predetermined pattern or structure for the prompts and grammar. The grammar also includes predefined grammar. Grammatical inference is also executed to enhance the grammar. The grammatical inference method for developing the grammar may include processing rules of the grammar, creating additional rules representative of repeated phrases, and merging equivalent symbols of the grammar, wherein the rules define slots to represent data on which an interactive system executes operations and include symbols representing at least a phrase or term. The grammar is hierarchical and the rules include a reference count representing the number of other rules that reference the rule. Additional rules to be created during grammatical inference are determined on the basis of attribute constraints.

WO 00/78022 AJ

## WO 00/78022 A1



Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.